

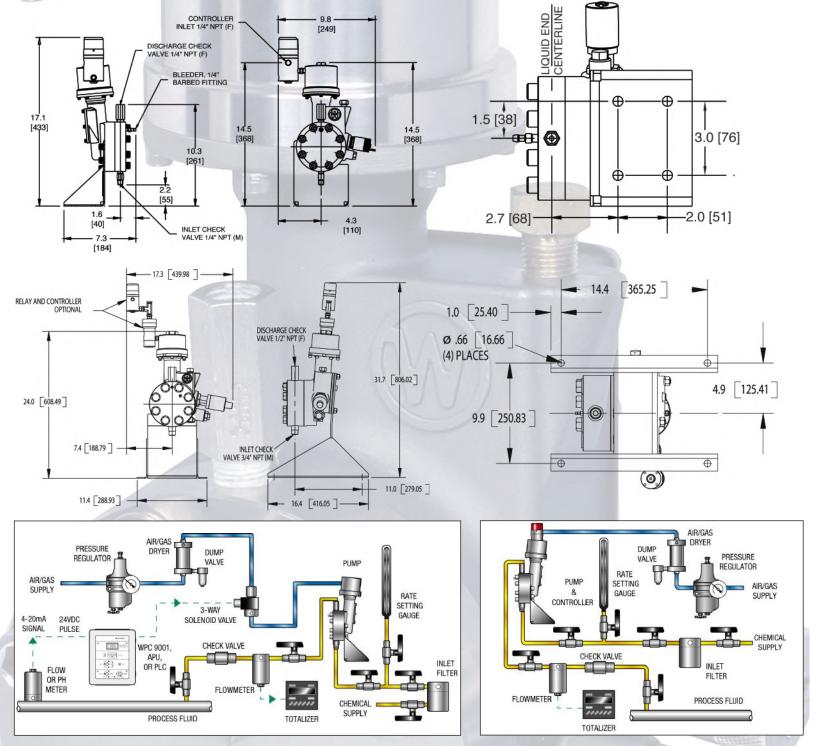


Williams and Milton Roy have combined technologies to design a pump blending the proven mRoy® hydraulic by-pass diaphragm design with the Williams "V" Series pump. The result is the low volume, high turndown characteristics of a pneumatic drive coupled with the chemical containment and high pressure capabilities of a hydraulically actuated diaphragm.



### Optional Diaphragm Rupture Detection

The WILROY® diaphragm liquid ends are, by design, leakproof and durable. In some applications however, added assurance is desired to protect the pump internals from extremely hostile chemicals, or protect the process from potential contamination by hydraulic fluids, or to provide additional containment of the chemicals from being released to the environment.



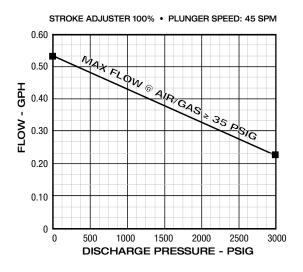
FlowTracking Controller Configuration

**Standard Pneumatic Controller Configuration** 

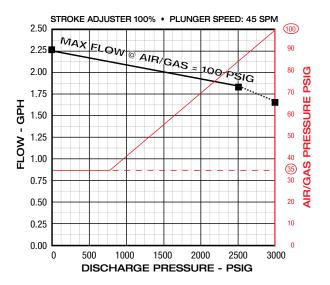
Wilroy A & B Performance Characteristics

	Volume @500PSI Si		Per Length	Strokes Per Minute (Range)	Max Discharge Pressure PSIG / BARG	Max Air Consumption		
Model Weight		Volume Per				@100 PSIG	@6.9 BAR	lbs/Kg
		Stroke CC				SCF Per Day	SCM Per Day	
WILROY® 2M	.54/2.04	.8	1	1-45	3000/207	2068	59	27/12.2
WILROY <sub>®</sub> 5M	2.25/8.51	3.2	1	1-45	3000/207	2068	59	27/12.2
WILROY® 754	5.0/18.9	7.3	1	1-45	2500/172	3548	101	121.5/55.1
WILROY® 104	8.2/31.0	11.5	1	1-45	1600/207	3548	101	121.5/55.1
WILROY® 106	7.8/29.5	11.0	1	1-45	3000/207	7190	203	137/62.1

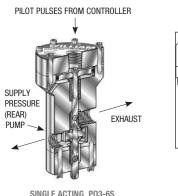
### Flow Performance Graph for Wilroy® 2M

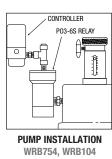


### Flow Performance Graph for Wilroy® 5M

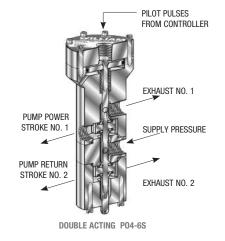


## PNEUMATIC RELAYS





PUMP INSTALLATION WRB106



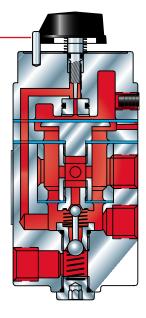
The PNEUMATIC RELAY is a pilot operated valve designed to provide the higher air or gas flow rates necessary for PNEUMATIC DRIVE CYLINDER diameters greater than 3 inches. The PNEUMATIC RELAY is actuated by the pulses produced by the CONTROLLER. A single acting PNEUMATIC RELAY is used with pumps that have return springs as illustrated to the upper left. The air or gas pressure is required to return the PISTON-PLUNGER ASSEMBLY on the CRP1000V800. Therefore a double acting PNEUMATIC RELAY is required, illustrated to upper right.

# **Oscillamatic**<sup>®</sup>

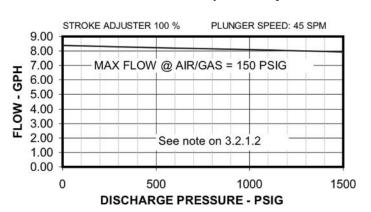
# PNEUMATIC CONTROLLERS

Featuring our latest addition to the Williams line - the MK XIIA controller which combines the corrosion resistance of 316 SS with the diaphragm-style spool design for ease of maintenance. The Williams "Oscillamatic" controllers are unique and precise pneumatic instruments. These units are designed to operate any pneumatic metering pumps or instrument requiring pilot pulses. The controllers accept a constant supply of air or gas pressure which produces pneumatic output pulses. The output signal is manually adjusted by a control rate valve. The controller, installed on the metering pump, provides the most accurate and reliable pneumatic control available today.

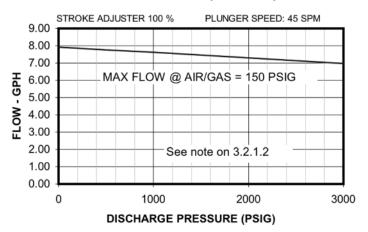
MODELS	SUPPLY PSI	/ RANGE BAR	BODY MATERIAL	STROKE SPM	ELASTOMERS AVAILABLE	SPOOL STYLE
MK XIIA	30-100	2.0-6.9	316 SS	1-45	NEOPRENE	DIAPHRAGM
MK VII	50-90	3.4-6.2	ANODIZED ALUMINUM	1-45	NEOPRENE VITON®	DIAPHRAGM
MK II	25-65	1.7-4.5	ANODIZED ALUMINUM	1-45	NEOPRENE VITON®	DIAPHRAGM



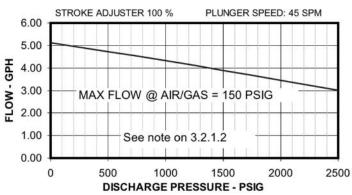
### Flow Performance Graph for Wilroy® 104



### Flow Performance Graph for Wilroy® 106



### Flow Performance Graph for Wilroy® 754





### **PART MODEL NUMBER**

WRB 1 - 11 104M NN SE BB

2M: .250" Plunger with 316 SS Micrometer Knob

5M: .500" Plunger with 316 SS Micrometer Knob

WRA 1: 316 SS | Model WRB 1: 316 SS Construction

754: .750" Plunger, 4" Air Cylinder w/ 316 SS Micrometer 104: 1.000" Plunger, 4" Air Cylinder w/ 316 SS Micrometer

NN: None | Control

11: MK | Method

**106:** 1.000" Plunger, 6" Air Cylinder w/ 316 SS Micrometer

**Plunger** Configuration

Base NN: None Selection BB: Base

SE: NPT Connections

2M: 1/4" NPT (F) Discharge, 1/4" NPT (M) Suction 5M: 1/4" NPT (F) Discharge, 1/2" NPT (M) Suction 754: 1/2" NPT (F) Discharge, 3/4" NPT (M) Suction 104: 1/2" NPT (F) Discharge, 3/4" NPT (M) Suction

106: 1/2" NPT (F) Discharge, 3/4" NPT (M) Suction

NN: None Diaphragm

**Rupture Detection** 

C5: Rupture Detection Bracket & Gauge

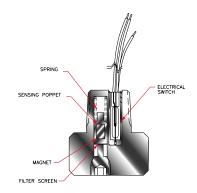
SN: Rupture Detection Gauge & Nema 4 Switch

S7: Rupture Detection Gauge & Nema 7 Switch

# WFS6704 MICRO FLOW SWITCH For Detecting Increases & Decreases in Flow Rates



- **Explosion Proof** Class I, Division 1&2, Groups A, B, C, D Class II, Division 1&2, Groups E, F, G
- Fully Field Adjustable
- Operates in Any Orientation
- Miniature Compact Size
- Operating Temperature -40° F to +300° F (-40° C to +150° C)
- Operating Pressure 3000 PSIG (207 bar)
- Corrosion Resistant 316 Stainless Steel
- Shock & Vibration Resistant
- 1/4" NPT Connections





DRUM GAUGES Liquid Level/Injection Rate Gauge				
MODELS	MATERIALS			
C779WS	Carbon Steel			
C779WS-V	Carbon Steel - Vented			
C779WS-SS	Stainless Steel			
C779WS-SS-V	Stainless Steel - Vented			
30216-CS-V-GPD-S	Carbon Steel			
30216-S6-V-GPD-S	Stainless Steel			

PCV125 AL Pressure Regulator					
SENSITIVITY	MAX. PRESSURE				
0.1 PSI	20SCFM	250 PSI			
0.689kPa	.566m3/min	1724 kPa			



AIR OR GAS DRYER-FILTERS Complete with Manual Drain Valve				
MODELS	FLOW RATES	MAX. PRESSURE		
J-150	40SCFM	150 PSI		
J-500	40SCFM	500 PSI		





LIQUID CHEMICAL FILTERS 316 Stainless Steel				
MODELS	CONNECTION FILTER ELEMENT	OPTIONAL FILTER ELEMENT		
LCF-10-25	1/4" NPT 25 micron, Std	1, 2, 8 microns or 100 mesh		
LCF-15-25	1/2" NPT 25 micron, Std	stainless steel screen		

AUTOMATIC DUMP VALVES Used with the Air or Gas Dryer-Filters				
MODELS	BOWL	MAX. PRESSURE		
ADV-150-A	Plastic	150 PSI		
ADV-250-A	Steel	250 PSI		





201 Ivyland Road • Ivyland, PA 18974 USA (800) 235-3421 • (215) 293-0415 • Fax: (215) 293-0498 E-mail: info@williamspumps.com

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